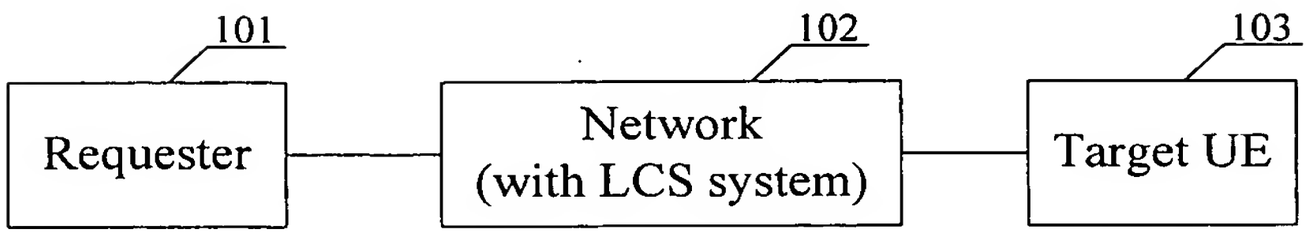

Figure 1

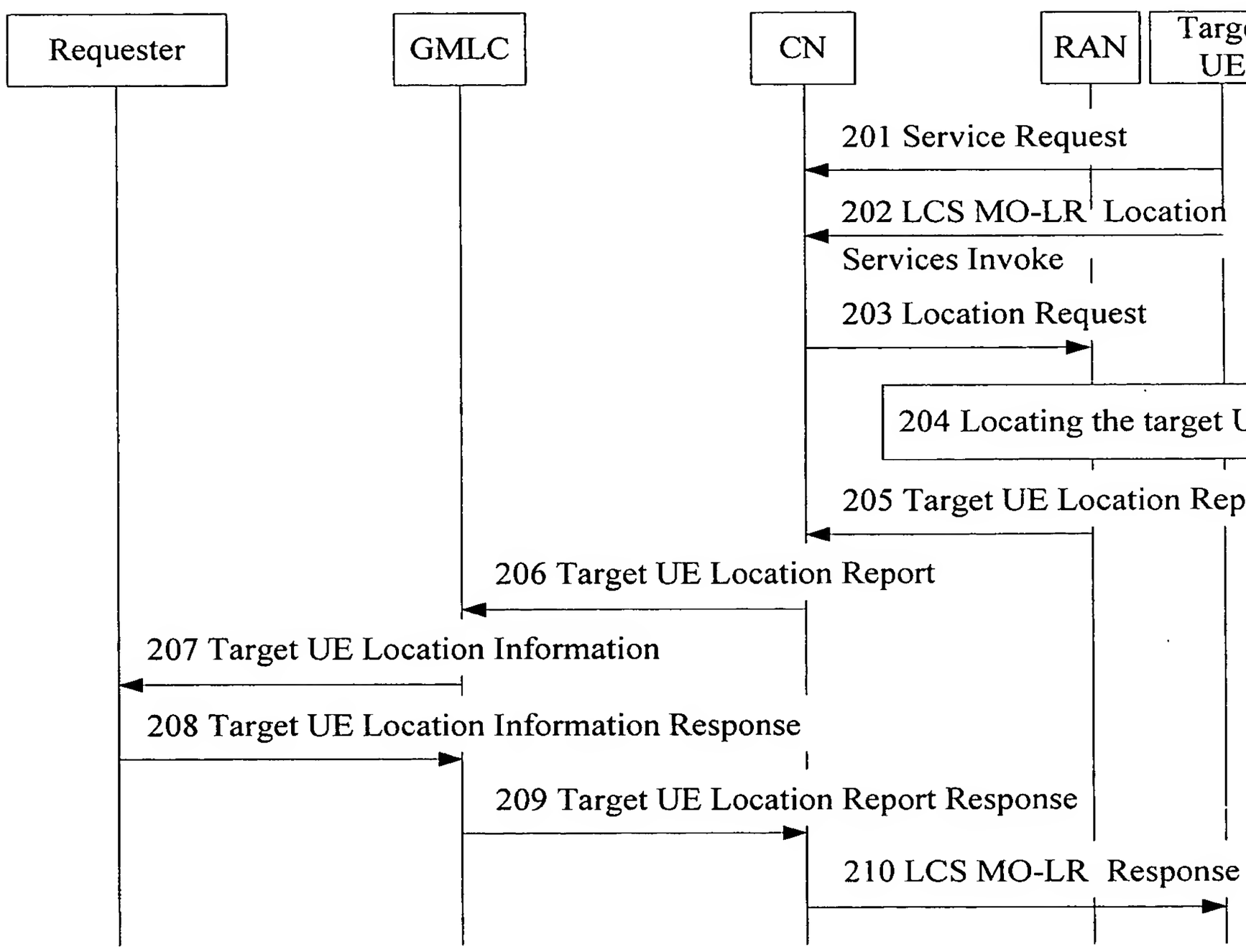

Figure 2

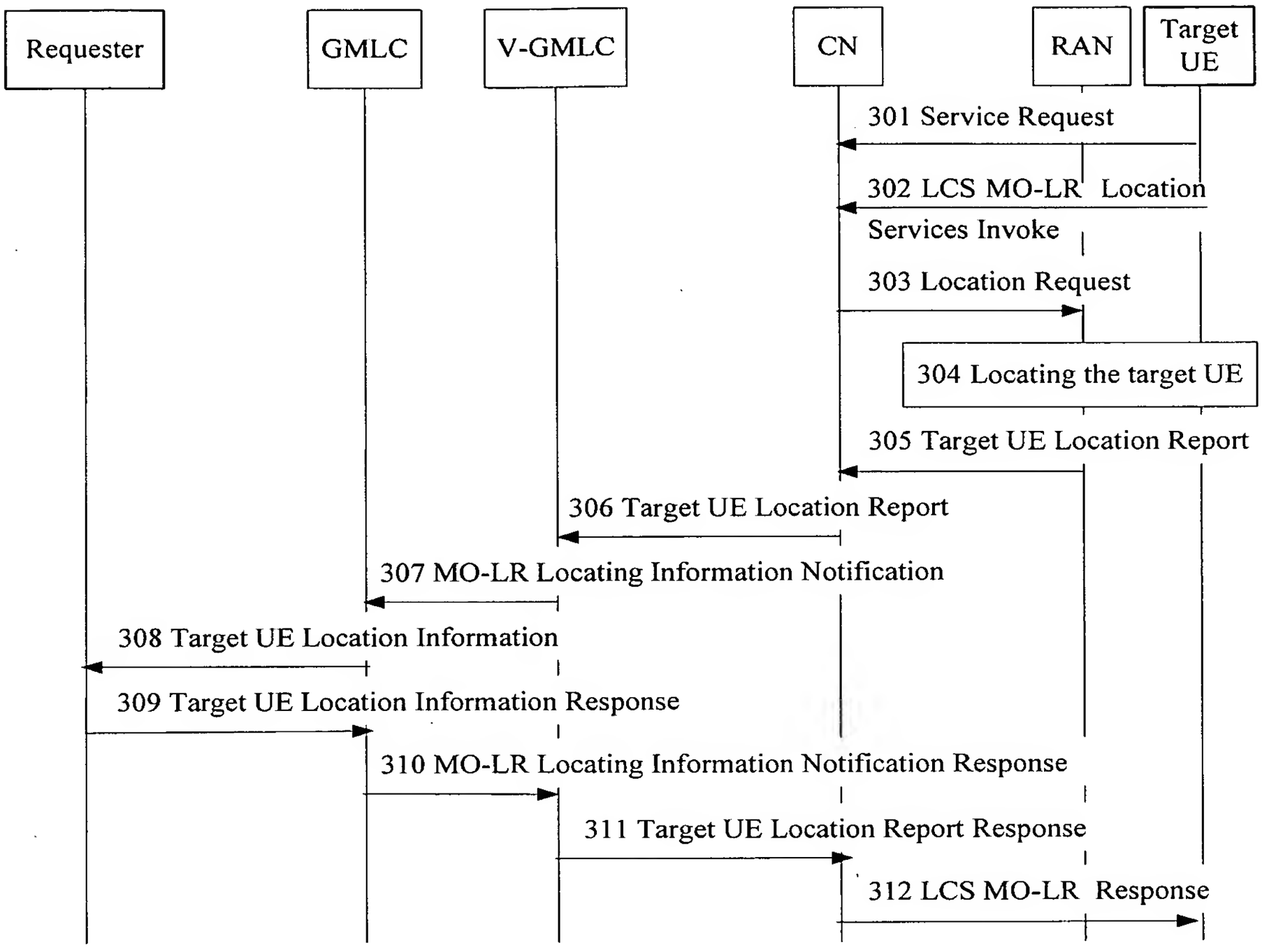
Requester
GMLC
V-GMLC
CN
RAN
Target UE
301 Service Request
302 LCS MO-LR Location Services Invoke
303 Location Request
304 Locating the target UE
305 Target UE Location Report
306 Target UE Location Report
307 MO-LR Locating Information Notification
308 Target UE Location Information
309 Target UE Location Information Response
310 MO-LR Locating Information Notification Response
311 Target UE Location Report Response
312 LCS MO-LR Response

Figure 3

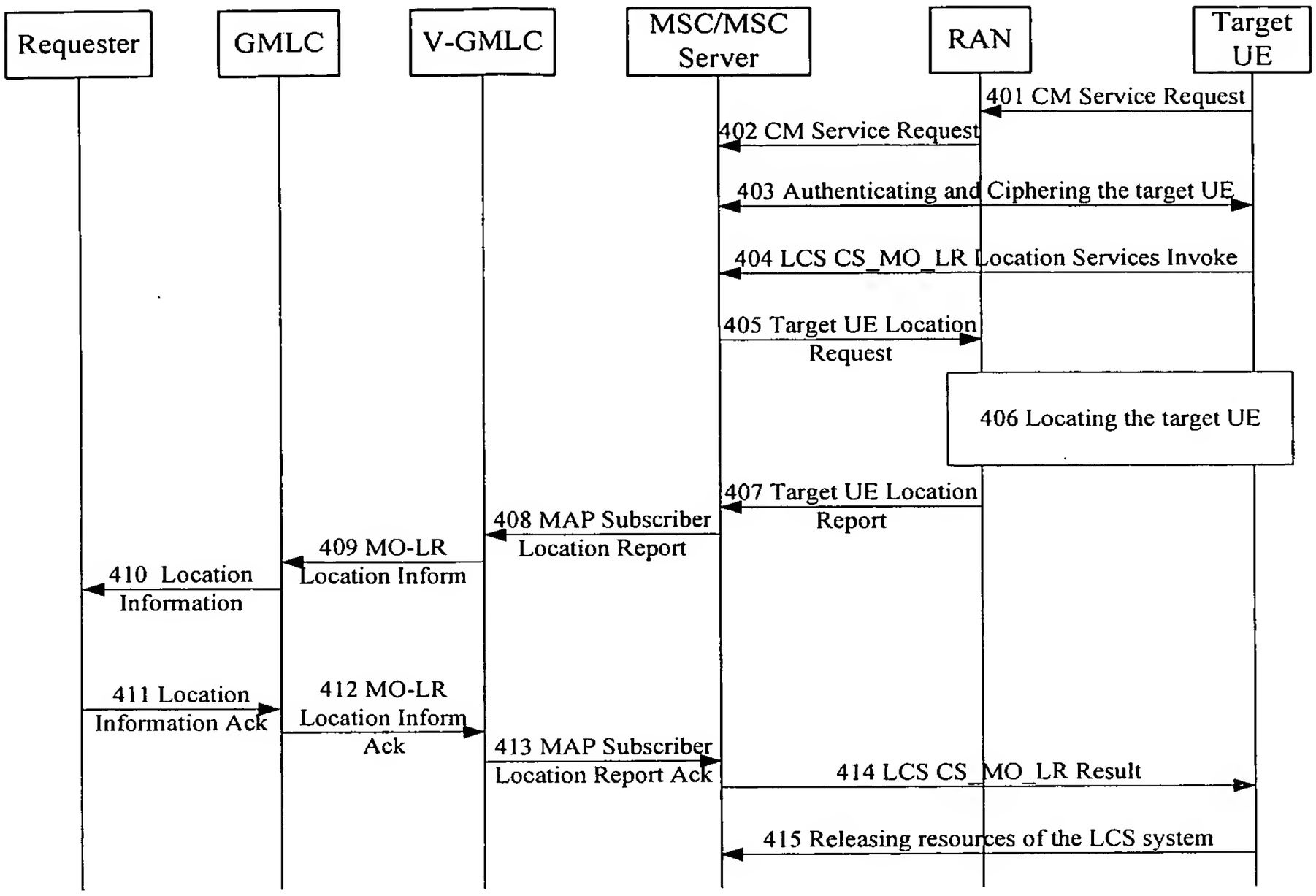
Requester
GMLC
V-GMLC
MSC/MSC Server
RAN
Target UE
401 CM Service Request
402 CM Service Request
403 Authenticating and Ciphering the target UE
404 LCS CS_MO_LR Location Services Invoke
405 Target UE Location Request
406 Locating the target UE
407 Target UE Location Report
408 MAP Subscriber Location Report
409 MO-LR Location Inform
410 Location Information
411 Location Information Ack
412 MO-LR Location Inform Ack
413 MAP Subscriber Location Report Ack
414 LCS CS_MO_LR Result
415 Releasing resources of the LCS system

Figure 4

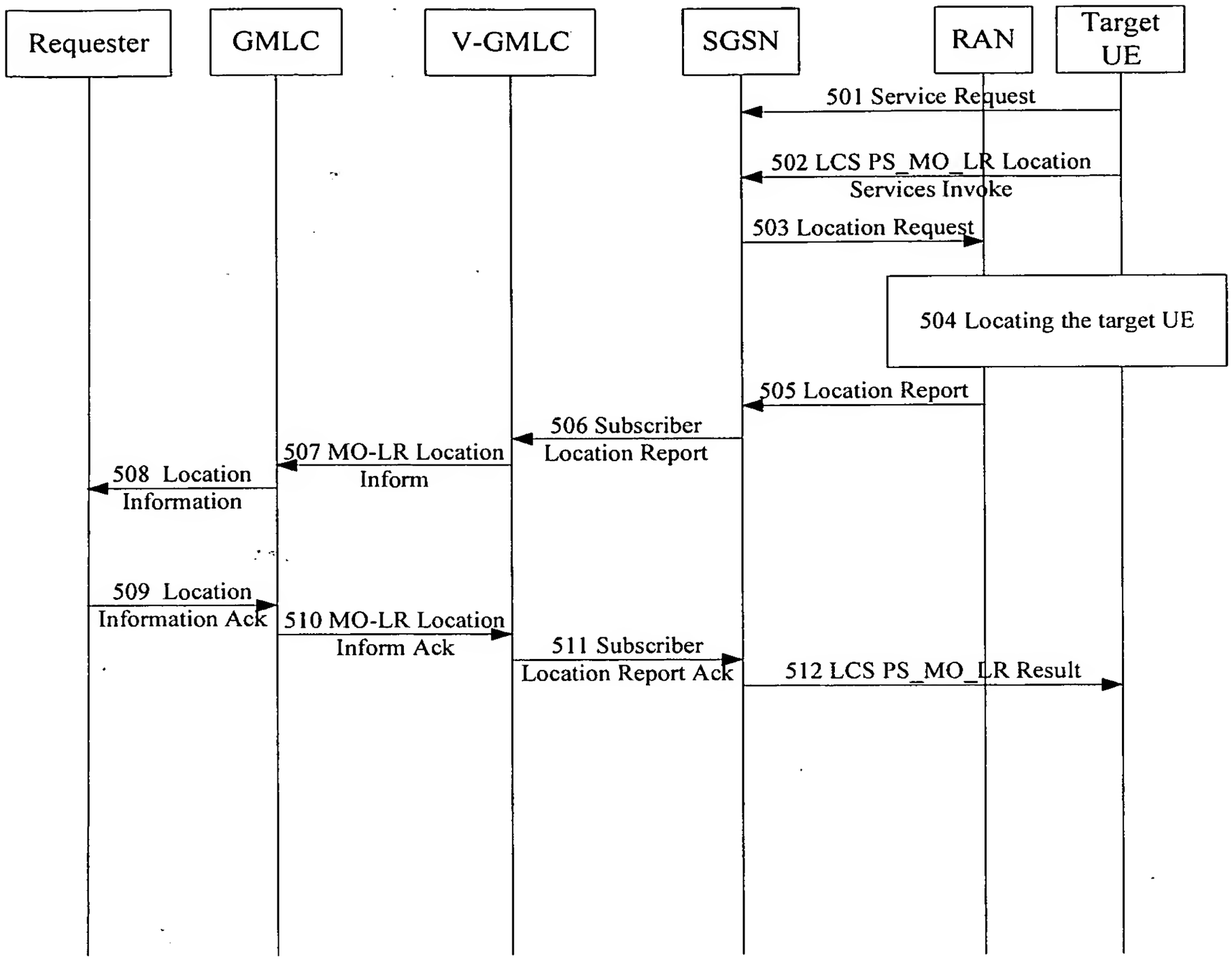
Requester
GMLC
V-GMLC
SGSN
RAN
Target UE
501 Service Request
502 LCS PS_MO_LR Location Services Invoke
503 Location Request
504 Locating the target UE
505 Location Report
506 Subscriber Location Report
507 MO-LR Location Inform
508 Location Information
509 Location Information Ack
510 MO-LR Location Inform Ack
511 Subscriber Location Report Ack
512 LCS PS_MO_LR Result

Figure 5

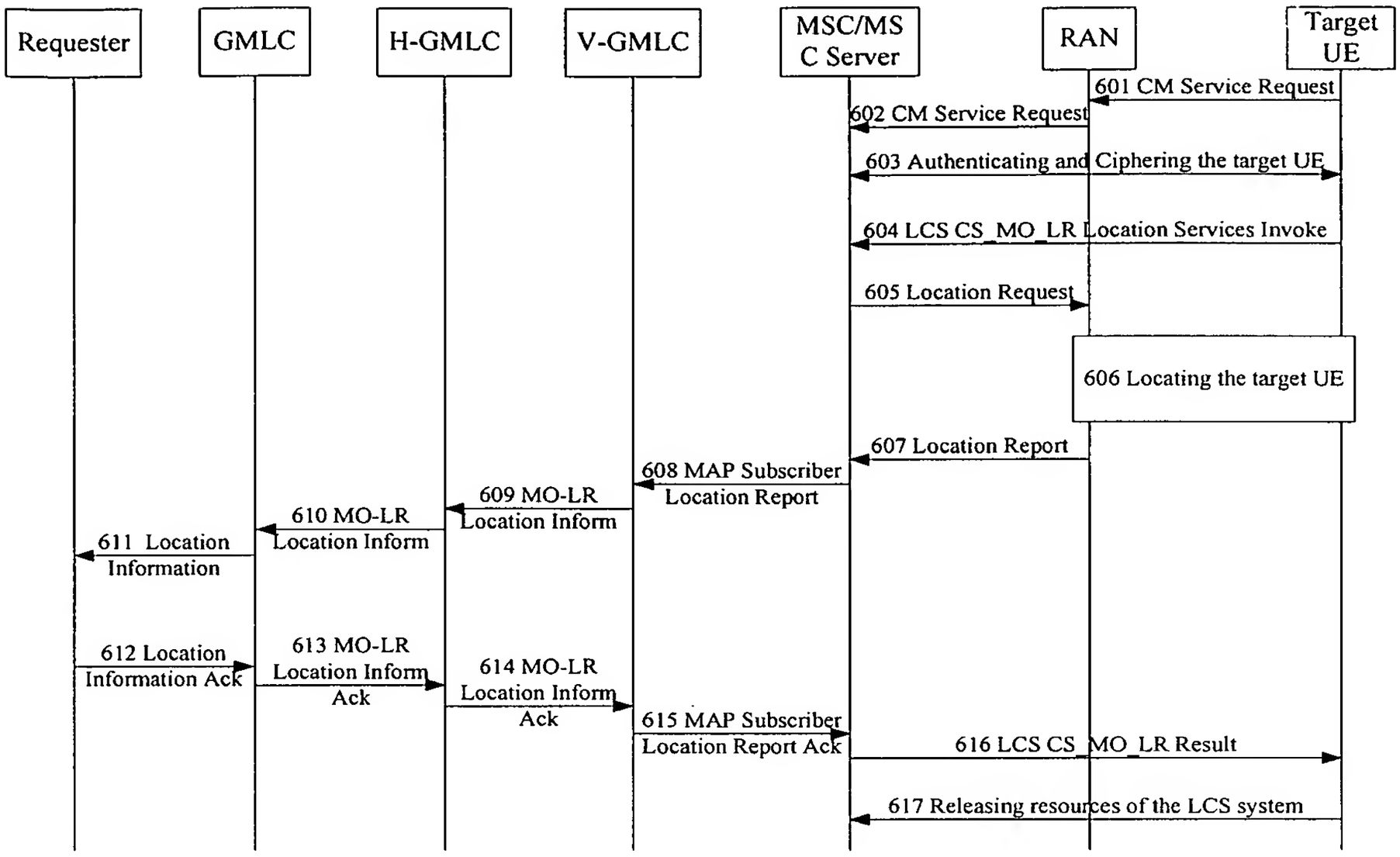
Requester
GMLC
H-GMLC
V-GMLC
MSC/MS C Server
RAN
Target UE
601 CM Service Request
602 CM Service Request
603 Authenticating and Ciphering the target UE
604 LCS CS_MO_LR Location Services Invoke
605 Location Request
606 Locating the target UE
607 Location Report
608 MAP Subscriber Location Report
609 MO-LR Location Inform
610 MO-LR Location Inform
611 Location Information
612 Location Information Ack
613 MO-LR Location Inform Ack
614 MO-LR Location Inform Ack
615 MAP Subscriber Location Report Ack
616 LCS CS_MO_LR Result
617 Releasing resources of the LCS system

Figure 6

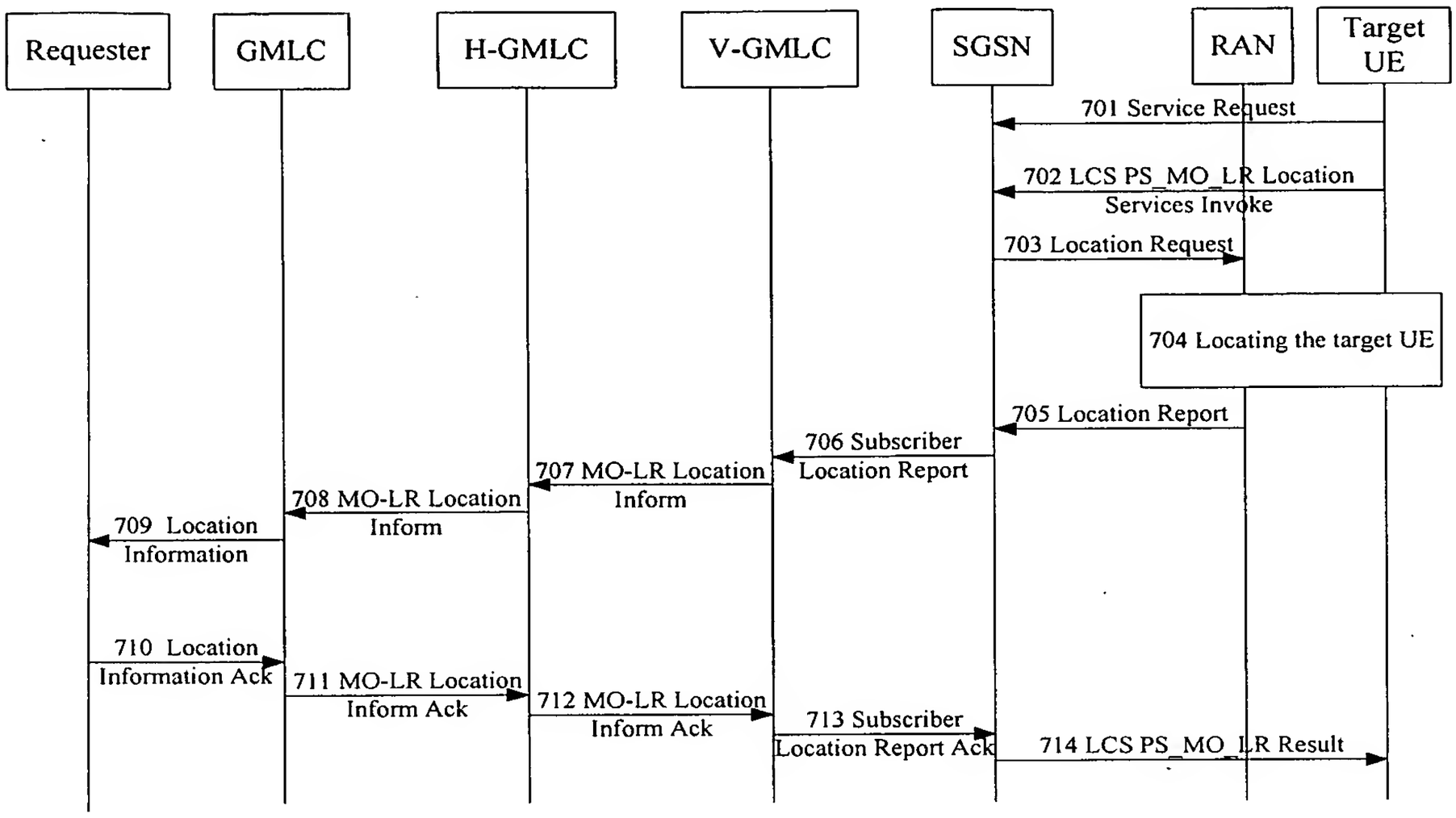
Requester
GMLC
H-GMLC
V-GMLC
SGSN
RAN
Target UE
701 Service Request
702 LCS PS_MO_LR Location Services Invoke
703 Location Request
704 Locating the target UE
705 Location Report
706 Subscriber Location Report
707 MO-LR Location Inform
708 MO-LR Location Inform
709 Location Information
710 Location Information Ack
711 MO-LR Location Inform Ack
712 MO-LR Location Inform Ack
713 Subscriber Location Report Ack
714 LCS PS_MO_LR Result

Figure 7